APPENDIX A

ROCKY FLATS
HISTORICAL INVESTIGATION INTERVIEWS

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No.	NAME	EXPERTISE	YEARS AT RFP
1	Aldrich, Joe	Health Physics for 800 bldgs and 991	11 (1981-present)
2	Angell, Otis	Health & Safety	12 (1953-1965)
3	Barrick, Chuck W.	Hazardous Materials, accident summaries	38.5 (1952-1990)
4	Beranek, Michael W.	Chemical Operator B-771	21 (1970-present)
5	Boss, Merlyn	Health Physics, radionuclide effluents	29.5 (1962-present)
6	Bower, John	Operations B-776/777	1.5 (1990-present)
7	Bukowski, Dale	Health Physics, radionuclide effluents	31 (1961-present)
8	Coles, Gary W.	Facilities/Utilities	10 (1981-present)
9	Conner, William V.	Production support and R&D B-771	29 (1963-present)
10	Costain, Dave	Clean Air Environmental Reporting	4(1989-present)
11	Crisler, Larry R.	Historical chemical recovery processes B-771, B-444	28 (1964-present)
12	Crocker, Robert	Non-radiological monitoring (early APENs, carbon tet)	10 (1981-present)
13	Cypher, Norm	Waste (B-771 incinerator, B-374)	21 (1970-present)
14	Delhierro, Mike	Chem Operator B-771, electrician, Production B-371	22 (1969-present)
15	DeWitt, Steve	Operations B-771 (Pu recovery)	24 (1968-present)
16	DiGiallonardo, Louie	Foundrys: B-776/707(Pu), B-444 (U, Be); Production Mgr.	39 (1952-present)

No.	NAME	EXPERTISE	YEARS AT RFP
17	Dingman, Vern	Production B-707,777	36 (1955-present)
18	Dye, Art	Health Physics, B-779 Hydride Lab	23 (1968-present)
19	Elofson-Gardine, Paula	Committee Against Radiotoxic Pollution	N/A
20	Foppe, Terry	Safety Analysis Reports	10 (1982-present)
21	Forrey, Charles	B-771, B-371: Chem labs, Pu recovery, B-771 fume scrubber	34 (1957-present)
22	Freiberg, Ken	903 Pad	37 (1953-1990)
23	Frick, Laura	Chemical usage (NEPA)	7 (1985-present)
24	Garcia, Andy	Installation/Testing/Maintenance of HEPA filters	16 (1976-present)
25	Gisler, Richard	Chem Operator B-771, B-776, production	31 (1961-present)
26	Hazel, Al	CDH Radiological Monitoring	N/A
27	Hebert, Joe	Operations Mgr. B-771, Facilities Engineering	18 (1974-present)
28	Hickle, Gordon	Facilities Engineering; Waste	17 (1974-present)
29	Hilbig, Robert	B-460 tooling; B-771 and B-559 labs	27 (1963-present)
30	Hobbs, Farrell	liquid effluents, retention ponds	22 (1969-present)
31	Hoffman, Rod	Instrumentation, Product Engineering, Classification	28 (1963-present)
32	Hornbacher, Daryl	Product Chemistry; 70's Environmental (Rads effluent)	24 (1968-present)
33	Hudson, Fred	Maintenance, B-771, 371, 444	19 (1973-present)
34	Hunter, Duane	Analytical labs in B-777, 707, 559, 881	22 (1970-present)
35	Ideker, Gene	B-881 stainless steel, B-460	24 (1968-present)
36	Jackson, Ross	Uranium and Be in B-444, 865, 883	28 (1964-present)

No.	NAME	EXPERTISE	YEARS AT RFP
37	Johnson, Rodney	Non-Plutonium Facilities B-881, 444, 460	23.5 (1967-present)
38	Karpen, Barbara L.	Health Physics secretary (radioactive effluent records)	13 (1979-present)
39	Kelchner, Burt	Chemical Operations B-881 (U and Pu); Waste Projects B-374	32 (1952-1983)
40	Link, Dick	Chemical usage (700 buildings)	29 (1962-present)
41	Loudenberg, Gerry	Purchasing (hazardous materials records)	18 (1973-present)
42	Maas, Maurice	Waste Treatment B-774, 374	32 (1952-1983)
43	Martella, Larry	Recovery Operations B-771 (aqueous), B-776 (pyro/salt)	20 (1971-present)
44	McMenus, Frank	Chemical Operator B-771; Waste processing B-774/374	22 (1969-present)
45	Melick, Steve	Warehouse Operations	39 (1952-present)
46	Merriman, Jim	B-559 Analytical lab, equipment standardization	22 (1970-present)
47	Milner, John Jr.	Filter installation and testing	22 (1969-present)
48	Morrison, James D. "Dave"	Water plant, early B-881 operations	38.5 (1953-present)
49	Morrison, John	B-771: Chemical Operator to Mgr; B-371; recent accidents	40 (1952-present)
50	Putzier, Ed	Health Physics, effluents, accidents	31 (1952-1983)
51	Quayle, Robert E. "Joe"	B-771 Utilities Mgr. (ventilation)	17 (1974-present)
52	Risinger, Joe	Chemical operator in B-776, 771, 371 (recovery)	23 (1969-present)
53	Rothe, Robert E.	B-886 criticality experiments	27 (1965-present)
54	Schubert, Allen	RCRA Permit Applications	3 (1989-present)
55	Sheets, Bob	B-771 Pu recovery troubleshooting	29 (1962-present)

No.	NAME	EXPERTISE	YEARS AT RFP
56	Simmons, Mike	B-444 (plating lab, beryllium)	11 (1980-present)
57	Slaybaugh, Robert	Utilities Operating Engineer and Mgr. B-771, 707	20 (1971-present)
58	Steckline, Ron	Utilities (every major building, esp. B-444, 460)	18 (1972-present)
59	Swenson, Barbara	Legal (Grand Jury Investigation)	14(1979-present)
60	Tallman, Ken	Production Engineering B-776/777, 707, 778, 559, 460	34 (1957-present)
61	Teel, Ronald P.	Waste processing B-774/374	25 (1966-present)
62	Trump, Carl	B-771 recovery; Material Control B-771, 706, 707	21 (1969-present)
63	Vejvoda, Ed	Production (EU, Pu); analytical, manufacturing	35 (1952-1987)
64	Waddell, Judy	CDH Hazardous Materials	N/A
65	Weaver, JackD.	Chemical operations and Production B-771, 371, 776	31 (1961-present)
66	Whicker, Dr. Ward	CSU Dept. Radiology and Radiation Biology	N/A
67	Young, Ed	Production Control, Safeguards & Security	33 (1959-present)
68	Zarrett, Jerry	Production Support Labs (B-371, 771, 881, and 559)	28 (1963-present)
69	Simmons, Richard	Health Physics Monitor, Experimental Operator, Quality Engineer, accident victim	34 (1956-1989)
70	DelPizzo, Richard D.	Operational Health Physicist	31 (1962-present)
71	Hill, John	Radiation Monitor, Health Physics Supv., Industrial Hygiene	32 (1953-1984)
72	Heberlein, Doug	Enriched Uranium Chemistry, Engineering & Troubleshooting, Patent Officer	31 (1952-1982)
73	Piltingsrud, Clarence	Los Alamos, Health Physics	27 (1953-1979)

No.	NAME	EXPERTISE	YEARS AT RFP
74	Langell, F.H.	Retired Plant Manager	11 (1951-1961)
75	Epp, John	Asst. Tech. Dir., Mfg. Mgr., Quality Group	25 (1951-1975)
76	Cornelison, Bill	Security, Fire Department, Document Control	26 (1951-1976)
77	Stone, Jim	Austin Co., Private Practice, Subcontractor at Rocky Flats, Utility Design at RFP	7 (1980-1986)
78	DiCarlo, Gene	Health Physics, Safety Committee	40 (1953-1992)
79	Ray, Johnny	Laborer, Radiation Protection, Performance Assurance	36 (1957-present)
80	English, Ernie	Laborer, Radiation Monitoring	25 (1968-present)
81	Shannon, Wm. M. "Mike"	Cost Accounting, Budget & Planning, Finance Director	35 (1956-1990)
82	Greinetz, Rosamund	Chemist at RFP Briefly. Now a Concerned Member of Public.	5 (1976-1980)
83	Clark, Norm	Building 883 Foundry Foreman	36 (1957-present)
84	Dorr, Jack	Retired General Manager	26 (1960-1985)
85	Martell, E.A.	CCEI, Soil Contamination Issues	N/A
86	Kendra, Mark	CDH Emission Database	N/A
87	Snead, J.	B-440	18 (1974 - present)
88	Niehoff, C.	B-440	18 (1974 - present)
89	Osbourne, Bill	Air Effluent Monitoring	10
90	Tyree, Bill	Air Effluent Monitoring	20
91	Cash, John	B-440	31 (1961 - 1991)
92	Woodard, Dick	B-881, Maintenance (Filter Group)	25

APPENDIX C

INTERVIEW QUESTIONS

INTERVIEW QUESTIONS

The Toxicological Review and Dose Reconstruction project has identified a number of **chemicals from inventories** generated by the plant in 1974 and in 1988/89 which are of interest for investigations of potential off-site health impacts. A **list** of 20 chemicals and 5 radioactive elements is attached. ChemRisk is interested in identifying the way these chemicals were used and released from the site historically, between 1950 and 1989.

Some of the chemicals have been identified as being stored or released from buildings. Air pollution emission notification (APEN) documents have been prepared by the plant which estimate emissions of chemicals for normal operation of the plant based on current processes and facilities. ChemRisk has reviewed all available APEN documents.

1. Pleas describe your complete work history at the plant, including years worked in building(s) and job title(s)/duties.

2. ChemRisk is interested in knowing about **historical changes to processes, buildings, or effluent treatment systems** that would have affected air emissions.

    - Do you know of any **process changes** that may have increased/decreased air emissions? (e.g., any processes which have been added or eliminated over the lifetime of the plant)

    - Do you know of any major **additions, eliminations or substitutions** in the types of chemicals used in the buildings? Do you know of any chemicals used in large quantities at the plant that are **not** on the enclosed list?

    - Do you know of any significant additions, eliminations or changes in **ventilation or emission controls** that could change emissions?

    - Can you suggest any methods for estimating historical **changes in the volumes** of chemical use and emissions that might have resulted from different rates of production (e.g., higher direct measurements of radioactive effluents might be associated higher production years). How might chemical emissions have varied?

3. Little historical information is available with regards to contaminants in **liquid effluents** from the plant, with the exception of the limited monitoring of the holding ponds.

   - Do you have any knowledge of the historical **disposal practices** for the attached list of chemicals and radioactive elements?

   - Is it likely that any of the chemicals have historically been **released** from the buildings to the treatment plant, holding ponds or creeks?

     - Do you know of any **means of estimating** the potential quantities of chemicals released to the liquid effluent treatment system, holding ponds or creeks?

     - What effect would the waste treatment systems have had on concentrations of the chemicals released to the ponds?

   - Are you aware of any routine or special, air or liquid effluent **sampling** that was done in or outside the building (e.g., industrial hygiene sampling or special studies of chemical emissions)?

     - What type of sampling was done?
     - Where can the sampling data be accessed?

4. Major **exhaust points** have been sampled for radionuclides and beryllium since the early years of plant operations. Are you aware of any potential radioactivity emission points from the plant that historically have **not been routinely sampled**?

5. In addition to routine emissions, ChemRisk is also interested in the **accidental** release of radionuclides or chemicals. What **accidental releases** of chemicals or radionuclides to the outside of a building are you aware of?

6. Three significant accidents have been the subject of much investigation at the plant. These three accidents are the **1957 fire** in B-771, the **1969 fire** in B-776/777 and the release of plutonium contaminated soil from the **903 Pad**.

   - Do you have any information or knowledge of **key reports** on these three accidents, especially any containing estimates of **release quantities**?

   - Do you know of any "**historians**" with unique or special knowledge of these events (including an address or phone number, if known)?

- Do you have any knowledge of the 1968 tritium release of 600 Curies from B-777 mentioned in the 1980 Environmental Impact Statement and press release? (This is not the 1973 or 1974 tritium releases.)